

AMENDMENT TO THE CLAIMS

Please cancel claims 1-31 without prejudice or disclaimer. Please amend claims 32-33 and add new claims 34-47 as follows:

1-31. (Cancelled)

32. (Currently Amended) A system to obtain a fixed impedance in a differential copper pair, comprising:

a first copper conductor;

a second copper conductor ~~that is parallel to the first copper conductor and spaced 5 millimeters away from the first copper conductor; and~~

an insulating casing encompassing the first copper conductor and the second copper conductor.

33. (Currently Amended) The system of claim 32, wherein the second copper conductor is spaced 5 millimeters away from the first copper conductor.

~~The system of claim 32, wherein the insulating casing includes~~

~~two side ground planes that are at least 0.015 inches thick, and an inner surface of a first one of the two side ground planes is 5 millimeters to the left of the first copper conductor and is 10 millimeters to the left of the second copper conductor, and an inner surface of a second one of the two side ground planes is 5 millimeters to the right of the second copper conductor and 10 millimeters to the right of the first copper conductor;~~

~~two vertical ground planes that are at least 0.007 inches thick and a first one of the two~~

~~vertical ground planes attaches perpendicularly to a top edge of the first one of the two side-ground planes and attaches perpendicularly to a top edge of the second one of the two side-ground planes and the first one of the two vertical ground planes is 5 millimeters above the first copper conductor and the second copper conductor, and a second one of the two vertical ground planes attaches perpendicularly to a bottom edge of the first one of the two side-ground planes and attaches perpendicularly to a bottom edge of the second one of the two side-ground planes and the second one of the two vertical ground planes is 5 millimeters below the first copper conductor and the second copper conductor; and~~

~~two pairs of vias, each of the two side-ground planes includes one of the two pairs of vias and each of the vias in the one of the two pairs of vias are less than 0.1 inches apart.~~

34. (New) The system of claim 32, wherein the first copper conductor is parallel to the second copper conductor.

35. (New) The insulating casing of claim 32, wherein the insulating casing includes two side-ground-planes used for grounding.

36. (New) The insulating casing of claim 35, wherein the two side-ground-planes are at least 0.015 inches thick.

37. (New) The insulating casing of claim 35, wherein an inner surface of a first one of the two side-ground-planes is located to the left of the first copper conductor and the second copper conductor.

38. (New) The insulating casing of claim 35, wherein an inner surface of a second one of the two side-ground-planes is located to the right of the second copper conductor and the first copper conductor.

39. (New) The insulating casing of claim 32, further comprising two vertical-ground-planes used for grounding.

40. (New) The insulating casing of claim 39, wherein the two vertical-ground planes are at least 0.007 inches thick.

41. (New) The insulating casing of claim 39, wherein a first one of the two vertical-ground-planes attaches perpendicularly to two side-ground-planes.

42. (New) The insulating casing of claim 39, wherein the first one of the two vertical-ground-planes is located above the first copper conductor and the second copper conductor.

43. (New) The insulating casing of claim 39, wherein a second one of the two vertical-ground-planes attaches perpendicularly to two side-ground-planes.

44. (New) The insulating casing of claim 39, wherein the second one of the two vertical-ground-planes is located below the first copper conductor and the second copper conductor.

45. (New) The insulating casing of claim 35, further comprising two pairs of vias wherein

each of the two side-ground-planes includes one of the two pairs of vias.

46. (New) The insulating casing of claim 45, wherein each of the vias in the one of the two pairs of vias are less than 0.1 inches apart.

47. (New) The insulating casing of claim 35, wherein at least one of the two side-ground-planes is parallel to at least one of the first copper conductor and the second copper conductor.